



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Reeve, L.E. et al.  
Serial No: 10/811,239  
Filed: March 26, 2004  
For: *Purified Polyoxyalkylene Block  
Copolymers*

Examiner: Therkorn, E. G.  
Art Unit: 1723  
Attorney Docket No.: PMX-003.02

CERTIFICATE OF FIRST-CLASS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on February 10, 2005.

*Shirine Darvish*  
Shirine Darvish

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of references AA – CJ are not required because this application was filed after June 30, 2003; copies of references CL-CP, CU-CV, CX-CY, and DC-DE are not provided as they were previously cited by or submitted to the Patent Office in prior patent applications Nos. 10/766,756, filed January 28, 2004; and/or 09/928,560 filed August 13, 2001 now U. S. Patent No. 6,761,824; both of which are relied upon for an earlier filing date under 35 U.S.C. §120; copies of references CK, CQ-CT, CW, and CZ-DB are provided herein.

### REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed:

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office Action** on the merits, or before the mailing of a **first Office Action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

## STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that **[check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]**:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,



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Form PTO-1449

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**  
(Use several sheets if necessary)
Docket Number (Optional)  
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Reeve, L. et al.Filing Date  
03/26/04Group Art Unit  
1723**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	6,682,546 B2	1/27/04	Amplatz	606	200	5/9/02
AB	6,599,308 B2	7/29/03	Amplatz	606	200	2/1/02
AC	6,579,303 B2	6/17/03	Amplatz	606	200	7/15/02
AD	6,565,527 B1	5/20/03	Jonkman et al.	604	96.01	11/3/99
AE	6,464,664 B1	10/15/02	Jonkman et al.	604	96.01	11/3/99
AF	6,447,531 B1	9/10/02	Amplatz	606	200	7/10/00
AG	6,123,715	9/26/00	Amplatz	606	200	7/8/94
AH	6,120,499	9/19/00	Dickens et al.	606	41	1/3/96
AI	5,725,552	3/10/98	Kotula et al.	606	213	5/14/96
AJ	5,443,478	8/22/95	Purdy	606	200	9/2/92
AK	4,705,517	11/10/87	DiPisa, Jr.	623	12	9/3/85
AL	6,723,108	4/20/04	Jones et al.	606	151	9/18/00
AM	6,692,510 B2	2/17/04	West	606	191	5/8/02
AN	6,686,203 B2	2/3/04	Calvo et al.	436	63	9/11/01
AO	6,680,046 B1	1/20/04	Boschetti	424	9.1	10/15/99
AP	6,656,200 B2	12/2/03	Li et al.	606	191	4/6/01
AQ	6,613,074 B1	9/2/03	Mitelberg et al.	623	1.11	3/3/00
AR	6,554,849 B1	4/29/03	Jones et al.	606	200	9/11/00
AS	6,500,190 B2	12/31/02	Greene, Jr. et al.	606	191	12/5/00
AT	6,428,558 B1	8/6/02	Jones et al.	606	200	2/16/00
AU	6,379,329 B1	8/30/02	Naglireiter et al.	604	99.02	6/1/00
AV	6,375,669 B1	4/23/02	Rosenbluth et al.	606	200	12/23/99
AW	6,355,275 B1	3/12/02	Klein	424	490	6/23/00
AX	6,312,421 B1	11/6/01	Boock	604	509	7/23/99
AY	6,165,193	12/26/00	Greene, Jr. et al.	606	191	7/6/98
AZ	6,015,424	1/18/00	Rosenbluth et al.	606	200	4/28/98
BA	5,823,198	10/20/98	Jones et al.	128	899	7/31/96
BB	5,525,334	6/11/96	Ito et al.	424	8.35	3/22/95

Form PTO-1449

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	BC	5,476,472	12/19/95	Dormandy, Jr. et al.	606	151	5/16/94
	BD	5,456,693	10/10/95	Conston et al.	606	192	8/25/94
	BE	5,382,260	1/17/95	Dormandy, Jr. et al.	606	151	10/30/92
	BF	4,999,188	3/12/91	Solodovnik et al.	424	78	6/7/89
	BG	4,819,637	4/11/89	Dormandy, Jr. et al.	128	325	9/1/87
	BH	4,795,741	1/3/89	Leshchiner et al.	514	21	5/6/87
	BI	4,551,132	11/5/85	Pasztor et al.	604	52	12/1/82
	BJ	4,477,255	10/16/84	Pasztor et al.	604	97	12/1/82
	BK	2002/0198561 A1	12/26/02	Amplatz	606	200	7/15/02
	BL	2002/0138095 A1	9/26/02	Mazzocchi et al.	606	200	1/30/02
	BM	2002/0123760 A1	9/5/02	Amplatz	606	151	5/9/02
	BN	2002/0103473 A1	8/1/02	Roychowdhury et al.	604	525	1/26/01
	BO	2003/0215519 A1	11/20/03	Schwarz et al.	424	497	3/14/03
	BP	2003/0211165 A1	11/13/03	Vogel et al.	424	493	3/23/01
	BQ	2003/0185896 A1	10/2/03	Buiser et al.	424	501	8/9/02
	BR	2003/0199887 A1	10/23/03	Ferrera et al.	606	151	4/23/02
	BS	2003/0088311 A1	5/8/03	Greene, Jr. et al.	623	1.23	12/16/02
	BT	2003/0083737 A1	5/1/03	Greene, Jr. et al.	623	1.23	12/4/02
	BU	2002/0026234 A1	2/28/02	Li et al.	623	1.34	4/6/01
	BV	2001/0001835 A1	5/24/01	Greene, Jr. et al.	623	1.23	12/5/00
	BW	6,030,634	2/29/00	Wu et al.	424	423	12/15/97
	BX	2002/0137973 A1	9/26/02	Reeve et al.	568	621	8/13/01
	BY	5,834,007	11/10/98	Kubota	424	443	9/16/94
	BZ	5,525,334	6/11/96	Ito et al.	424	78.35	3/22/95
	CA	5,028,336	7/2/91	Bartels et al.	210	639	3/3/89
	CB	5,116,508	5/26/92	Kumar et al.	210	639	2/23/90
	CC	5,523,492	6/4/96	Emanuele et al.	568	624	7/2/93
	CD	5,567,859	10/22/96	Emanuele et al.	568	624	8/9/94
	CE	5,605,687	2/25/97	Lee	424	78.06	6/5/95
	CF	5,691,387	11/25/97	Emanuele et al.	514	723	6/3/96

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	CG	5,696,298	12/9/97	Emanuele et al.	568	623	6/2/95
	CH	RE 36,665	4/18/00	Emanuele et al.	568	624	6/2/98
	CI	5,800,711	9/1/98	Reeve et al.	210	639	10/18/96
	CJ	5,990,241	11/23/99	Emanuele et al.	525	88	7/8/97

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	CK	WO 00/45868	8/10/00	PCT			
	CL	WO 92/16484	10/92	PCT			
	CM	WO 98/29459	7/98	PCT			
	CN	WO 99/20683	4/99	PCT			
	CO	WO 01/26692	4/00	PCT			
	CP	WO 01/40321	6/01	PCT			

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages Etc.)

	CQ	Blonder, J. M. et al.; "Dose-Dependent Hyperlipidemia in Rabbits Following Administration of Poloxamer 407 Gel", Life Sciences, Vol. 65, No. 21, pp. PL 261-266 (1999).
	CR	Bromberg, L. E. et al., "Temperature-responsive gels and thermogelling polymer matrices for protein and peptide delivery", Elsevier Advanced Drug Delivery Reviews 31 (1998) 197-221.
	CS	Carr, M. E. et al.; "Effects of poloxamer 407 on the assembly structure and dissolution of fibrin clots", Blood Coagulation and Fibrinolysis, 7, 109-113 (1996).
	CT	Edens, M. W.; "Applications of Polyoxyalkylene Block Copolymer Surfactants", <i>Nonionic Surfactants: polyoxyalkylene block copolymer</i> , 185-209 (1996).
	CU	Englard, S., et al., "Chapter 22: Precipitation Techniques," <i>Methods in Enzymology</i> , 182:285-300 (1990).
	CV	Hatti-Kaul, Rajni, <u>Aqueous Two-Phase Systems, Methods and Protocols</u> (Humana Press 2000).
	CW	Kalinoski, H. T., "Chemical Analysis of Polyoxyalkylene Block Copolymers", <i>Nonionic Surfactants: polyoxyalkylene block copolymers</i> , 31-65 (1996).
	CX	King, T.P., "Separation of Proteins by Ammonium Sulfate Gradient Solubilization," <i>Biochemistry</i> , 11(3):367-371(1972).
	CY	Kula, M.R. et al, "Protein Purification, Aqueous Liquid Extraction," 2179-2191 (1999), in <i>Encyclopedia of Bioprocess Technology: Fermentation, Biocatalysis, and Bioseparation</i> , eds. Flickinger and Drew, John Wiley & Sons, Inc.
	CZ	Matsumaru, Y. et al., "Application of thermosensitive polymers as a new embolic material for intravascular neurosurgery", J. Biomater. Sci. Polymer Ed., Vol. 7, No. 9, pp. 759-804 (1996).

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DA	Moghim, S. M. et al., "Poloxamers and poloxamines in nanoparticle engineering and experimental medicine", Tibtech October 2000 (Vol. 18), 412-420.
DB	Qiu, Y. et al., "Environment-sensitive hydrogels for drug delivery", Elsevier Advanced Drug Delivery Reviews 53 (2001) 321-339.
DC	Reeve, L.E., "The Poloxamers: Their Chemistry and Medical Applications," 23:1 - 249 (1997); in <i>Handbook of Biodegradable Polymers</i> , eds. Domb, Kost and Wiseman, Harwood Academic Publishers.
DD	Rodriguez, F., "Principles of Polymer Systems" (3 <sup>rd</sup> edition, Hemisphere Publishing Corp. 1989).
DE	Tarli, P. et al., "Human Pituitary Growth Hormone: Solubility in Ammonium Sulfate Solutions," <i>Archives Biochemistry and Biophysics</i> , 161:696-697 (1974).
EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE